

PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. NO.: 0225-4161 US16	SERIAL NO.: 09/138,459
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		RECEIVED NOV 27 1998	
		APPLICANT(S): Sholom S. Rosen FILING DATE: 8/21/98 GROUP ART UNIT: 2766	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HS	5,453,601	09/26/95	Rosen			11/15/91
HS	5,539,828	7 / 1996	Davis			05/31/94
HS	5,473,692	12 / 1995	Davis			09/07/94
HS	5,568,552	10 / 1996	Davis			09/07/94
HS	4,443,027	4 / 1984	McNeely et al			
HS	4,454,414	6 / 1984	Benton			
HS	4,529,870	7 / 1985	Chaum			
HS	4,634,807	1 / 1987	Chorley et al.			
HS	4,644,493	2 / 1987	Chandra et al.			
HS	4,817,140	3 / 1989	Chandra et al.			
HS	4,916,738	4 / 1990	Chandra et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
HS	0 380 377 B1 (with Abstract)	8 / 1990	EPO				
HS	4 191 06 A1	3 / 1991	EPO				X
HS	9308545	4 / 1993	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

HS	"Online Cash Checks", Chaum, D.; <i>Advances in Cryptology EUROCRYPT '89</i> , Qiuqquarter & J. Vandewalle (Eds.) Springer-Verlag, pp. 288-293.		
	"Achieving Electronic Privacy", Chaum, D.; <i>Scientific American</i> , Aug. 1992, pp. 96-101.		
HS	"Value Exchange Systems Enabling Security and Unobservability", Burk, H., et al., <i>Computers & Security</i> , 9 (1990), pp. 715-721.		
HS	"Proxy-Based Authorization and Accounting for Distributed Systems", Neuman, B. Clifford; <i>Proceedings of the 13th International Conference on Distributed Computing Systems</i> , Pittsburgh, May 1993.		
	"Le paiement électronique", P. Rémy, J.C. Pailles and F. Lay, <i>L'Echo des RECHERCHES</i> , No. 134 4 trimestre 1988 (with English-language translation).		

EXAMINER Ho Suk SONG	DATE CONSIDERED 1/9/06
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.: 0225-4161 US16	SERIAL NO.: 09/138,439
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		RECEIVED NOV 27 1998	
		APPLICANT(S): Shalom S. Rosen	
		FILING DATE: 8/21/98	GROUP ART UNIT: 2766 Group 2700

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HS	4,926,480	5 / 1990	Chaum			
HS	4,972,175	11 / 1990	MacPherson			
HS	4,999,806	3 / 1991	Chernow et al.			
HS	5,109,413	4 / 1992	Comerford et al.			
HS	5,117,457	5 / 1992	Comerford et al.			
HS	5,131,039	7 / 1992	Chaum			
HS	5,144,663	9 / 1992	Kudelski et al.			
HS	5,148,534	9 / 1992	Comerford			
HS	5,162,989	11 / 1992	Matsuda			
HS	5,185,717	2 / 1993	Mori			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
HS	9401825	1 / 1994	WIO				
HS	0 474 360 A2	3 / 1992	EPO				
HS	0 569 816 A2	11 / 1993	EPO				
HS	22 57 55 7	1 / 1993	UK				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

HS		"Padlock", D. Everett, <i>Computer Bulletin</i> , Mar. 1985, pp. 16-17.
		"ABYSS: A Trusted Architecture for Software Protection", S.R. White and L. Comerford, <i>IEEE</i> , 1987.
HS		"Public Protection of Software", A. Herzberg and S.S. Pinter, <i>ACM Transactions on Computer Systems</i> , vol. 5, no. 4, Nov. 1987, pp. 371-393.
		"Security Without Identification: Card Computers To Make Big Brother Obsolete", D. Chaum, 1987.
HS		"Internet Billing Service Design and Prototype Implementation", Marvin A. Sirbu, <i>IMA Intellectual Property Project Proceedings</i> , vol. 1, Issue 1, Jan. 1994.
		"Dyad: A System for Using Physically Secure Coprocessors", J.D. Tygar and B. Yee, School of Computer Science, Carnegie Mellon Univ., Pittsburgh, PA.

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i> <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> NOV 23 1998 <small>PATENT & TRADEMARK OFFICE</small> </div> </div>				RECEIVED NOV 27 1998 Group 2700			
				APPLICANT(S): Shalom S. Rosen		FILING DATE: 8/21/98	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HS		5,202,921	4 / 1993	Herzberg et al.			
HS		5,221,838	5 / 1993	Gutman et al.			
HS		5,247,578	9 / 1993	Pailles et al.			
HS		5,276,311	1 / 1994	Hennige			
HS		5,276,736	1 / 1994	Chaum			
HS		5,305,200	4 / 1994	Hartheimer et al.			
HS		5,319,705	6 / 1994	Halter et al.			
HS		5,416,840	5 / 1995	Cane et al.			
HS		5,440,634	8 / 1995	Jones et al.			
HS		4,794,644	12 / 1988	Philip et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CMT		Hei 4-64129	2/28/1992	JP			X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							
HS		"Trusted Devices as applied to Corporate Key Escrow", F. Sudia, Jan. 14, 1994, Bankers Trust Co.					
		"Wavemeter Chip Provides Digital Money", M. Slater, <i>Microprocessor Report</i> , Vol. 8, No. 5, Apr. 18, 1994.					
HS		"Data Networks and Open System Communications Directory / Information Technology - Open Systems Interconnection - The Directory: Authentication Framework," ITU-T Recommendation X.509, Nov. 1993					
		"Anonymous Internet Mercantile Protocol", AT&T Bell Laboratories, Draft: March 17, 1994, pp. 1-16, David M. Kristol, Steven H. Low, Nicholas F. Maxemchuk					
HS		Literature of Microcomputer [II], edited by Nihon Denshi Kogyo Sinko Kyokai (March, 1988), pp. 190-217 (Japanese language) and English translation thereof.					
EXAMINER Hosuk SONG				DATE CONSIDERED 1/9/06			
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INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANT(S): Sholom S. Rosen		RECEIVED NOV 27 1998 Group 2700	
				FILING DATE: 8/21/98			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
HS	5,177,791	1 / 1993	Yeh et al.				
HS	4,993,069	2 / 1991	Matyas et al.				
HS	5,301,247	4 / 1994	Rasmussen et al.				
HS	4,933,971	6 / 1990	Bestock et al.				
HS	4,864,615	9 / 1989	Bennett et al.				
HS	5,247,576	9 / 1993	Bright				
HS	4,888,800	12 / 1989	Marshall et al.				
HS	4,876,716	10 / 1989	Okamoto				
HS	5,081,678	1 / 1992	Kaufman et al.				
HS	5,448,638	9 / 1995	Johnson et al.				
HS	4,941,173	7 / 1990	Boule et al.				
HS	4,956, 863	9 / 1990	Goss				
HS	4,799,156	1 / 1989	Shavit et al.				
HS	4,879,747	11 / 1989	Leighton et al.				
HS	5,511,121	4 / 1996	Yacobi				09/08/94
HS	4,868,877	9 / 1989	Fischer				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							
HS		"Universal Electronic Cash", Tatsuaki Okamoto and Kazuo Ohta, CRYPTO '91, (Session 8: Applications and Implementations; pp. 8-7 through 8-13).					
		"Limitations of the Kerberos Authentication System", Steven M. Bellovin and Michael Merritt, USENIX - Winter '91 (1-15).					
EXAMINER HoSuk SONG				DATE CONSIDERED 1/2/06			
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U.S. PATENT DOCUMENTS

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HS	4,723,284	2 / 1998	Munck et al.			
HS	5,001,752	3 / 1991	Fischer			
HS	5,481,715	2 / 1996	Hamilton et al.			12/15/93
HS	5,490,251	2 / 1996	Clark et al.			08/09/91
HS	5,282,248	1 / 1994	Dejoy			
HS	4,663,664	5 / 1987	Ragan et al.			
HS	4,682,224	7 / 1987	Ragan et al.			
HS	4,682,223	7 / 1987	Ragan et al.			
HS	4,977,595	12 / 1990	Ohta et al.			
HS	4,453,074	6 / 1984	Weinstein			
cmT	5,191,573	3 / 93	Hair			9/18/90
cmT	5,675,734	10 / 97	Hair			2/27/96
cmT	4,528,643	7 / 85	Freeny, Jr.			1/10/83

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

HS		"Applied Cryptography: Protocols, Algorithms, and Source Code in C", Bruce Schneier, John Wiley & Sons, Inc. (417-429) ISBN 0-471-59756-2; QA76.9.A25S35 1993.
HS		"An Architecture for Practical Delegation in a Distributed System", Morrie Gasser, Ellen McDermott, IEEE Computer Society Press, IEEE Computer Society Symposium on Research in Security and Privacy, May 7-9, 1990.
HS		"Practical Uses of Synchronized Clocks in Distributed Systems", Barbara Liskov, ACM Press, 10 th Annual ACM Symposium on Principles of Distributed Computing, Aug. 19-21, 1991, ISBN 0-89791-439-2.
HS		"SPX: Global Authentication Using Public Key Certificates", Joseph J. Tardo and Kannan Alagappan, IEEE 191 (CH2986-8/91/0000/0232).
HS		"The Digital Distributed System Security Architecture", Morrie Gasser, et al., Nat'l. Inst. of Standards and Tech./Nat'l Computer Security Ctr., 12 th National Computer Security Conferences, Baltimore, MD Oct. 10-13, 1989.

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